Abstract. In this talk we will introduce/survey the cluster complexes of Fomin and Zelevinsky, generalized cluster complexes of Fomin and Reading, and their associated $M, F, H$ triangles by Chapoton, Armstrong and Krattenthaler respectively. After that we propose a variant of the generalized Schröder paths and generalized Delannoy paths by giving a restriction on the positions of certain steps. This pure combinatorial generalization of Schröder paths turns out to be reasonable, as attested by the connection with the faces of generalized cluster complexes of type $A$ and $B$. As a result, we derive Krattenthaler’s $F$-triangles for these two types by a combinatorial approach in terms of lattice paths. This part of work is coauthored with Tung-Shan Fu. Finally some open problems will be discussed.