$$(X \otimes Y) \otimes Z \xrightarrow{\operatorname{br}_{X,Y} \otimes \operatorname{id}_{Z}} (Y \otimes X) \otimes Z \xrightarrow{\operatorname{as}_{Y,X,Z}} Y \otimes (X \otimes Z)$$

$$\downarrow \operatorname{id}_{Y} \otimes \operatorname{br}_{X,Z}$$

$$X \otimes (Y \otimes Z) \xrightarrow{\operatorname{br}_{X,Y \otimes Z}} (Y \otimes Z) \otimes X \xrightarrow{\operatorname{as}_{Y,Z,X}} Y \otimes (Z \otimes X)$$